GIS Initiative Presentation to the Senate Appropriations Committee

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GIS Initiative – Background

- GIS – Geographic Information System
- GIS Hub – a database and web infrastructure hosted by the Information Technology Department for hosting and sharing state agency GIS data & applications.
- General funding began with the 2001-03 biennium.

GIS Initiative – Background

- The GIS Technical Committee (GISTC) developed and maintains the GIS Hub

- GISTC membership (E.O. 1995-05):
  - Game and Fish Department
  - Health Department
  - Information Technology Department
  - Department of Transportation
  - Geological Survey
  - Parks and Recreation Department
  - State Water Commission

GIS Initiative – Purpose

- The GIS Hub supports the missions of state agencies while reducing cost.

- GIS data is stored and served out of a central location, helping to avoid duplicated data.

- GIS applications reside on a centralized infrastructure, helping to avoid duplicated infrastructure.

- Improved service to the public.

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GIS Initiative – Accomplishments

- During 2003-2005:
  - U.S. Geological Survey grant for sharing GIS Hub data with the nation's The National Map
  - Free GIS software for all K-12+ schools
  - Annual GIS Day conferences
  - Increased GIS Hub usage
  - New and updated data
  - New agency-driven GIS applications

GIS Initiative – Value

- 8 new GIS applications during 2003-2005:
  - Division of Emergency Management: *Devils Lake*
  - Tax Department: *sale tax rates*
  - DOT: *road construction, road report, load restrictions*
  - State Water Commission: *well inventory, precipitation information*
  - Game and Fish: *data display and download*

GIS Initiative – Value

"The combination of Game & Fish custom applications and NDHUB infrastructure has provided a way to deploy Department information to a wide range of users…the ND Hub Explorer has provided a way to distribute basic GIS functionality without purchasing additional software."

- Brian H., Game and Fish Department

GIS Initiative – Value

- GIS Hub usage:
  - 10,700 data downloads (3/04-12/04)
  - 30-35 daily concurrent database connections
  - Web applications average 37,000 hits/month
- Coordinated GIS training (since Feb. 2002)
  - $47,000 training-only costs saved
  - 103 state agency GIS users trained
- About 170 GIS layers on the GIS Hub

GIS Initiative – Future Value

- Tangible:
  - New applications – cost savings through re-use of existing Hub infrastructure.
  - Improved data distribution to state agencies.
  - Wider access to GIS information – web-based services.
- Intangible:
  - Improved public service – easier access to information.
  - Better decisions from the best available data.
  - The GIS Hub will likely be used by other programs, e.g., the Criminal Justice Information Sharing (CJIS).

GIS Initiative – 05-07 Plans

- Develop new partnerships
- Develop additional agency applications
- Continuation of coordinated GIS training
- Updated GIS Hub data to include:
  - elevation data
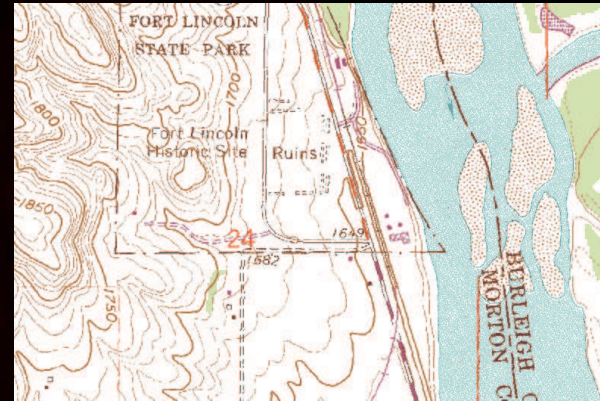 - water data
  - aerial photography

GIS Initiative – 05-07 Budget

2005-2007 Budget Request:

Coordinator (salary / benefits)	$149,803
Training / supplies / etc.	$21,460
Hosting (software / hardware)	$515,943
Total Budget Request	$687,206

GIS Initiative – Wrap-up

- The initiative continues to be very successful with demonstrated value.

- The GIS Hub continues to fulfill its purpose of reducing overall cost while supporting the mission of state agencies.

- Participation from state agencies remains strong.

- Continued growth in data, usage, and applications is expected.

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